

## SEQUENCE LISTING

<110> Sheppard, Paul O.  
Bishop, Paul D.

<120> Seleno-cysteine Containing Protein  
Zsnk13

<130> 00-87

<150> 60/256,676  
<151> 2000-12-18

<160> 6

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 1355  
<212> DNA  
<213> Agkistrodon piscivorus piscivorus

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cgcctgcagt ggctggcccg cggaaagggtg gagagctgtg gaggatgacg cttgaaccgc 180  
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cagagaatcc cattgagtga catgagccgg gaagagataa accagctgat gcaagaattg 360  
ggattctacc gaaaagacac gccggactcc cctgttcccg atgctttca aatggcgcct 420  
gctaattcac tgccatcaga tgtggaaagca atgaagaaca gacgtgcgaa agagaaaaaag 480  
ggggcggggg gtccagacct atagaattca acgtgctctg cttgtgaagg gtgcctgtta 540  
gaaagaatgg gaagtctcag ggcattggca atatctaaat aatctgcaac catatagata 600  
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tcggaagccg gttggaaaag gttgcaaatg gcgactgtgt gacttgaga acaccgactg 960  
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catccccaaa cccgatcctt gcacaaggca ccacacaagg gtccactccc gtgaccagca 1140  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1355

<210> 2  
<211> 110  
<212> PRT  
<213> Agkistrodon piscivorus piscivorus

<220>  
<221> VARIANT  
<222> (46)...(46)  
<223> Xaa is selenocysteine.

<400> 2  
Met Glu Thr Pro Leu Leu Trp Leu Pro Leu Leu Leu Gly Leu Leu  
1 5 10 15  
Ser Ala Leu Ala Pro Leu Arg Ala Val Gln Leu Asp Arg Ser Arg Leu  
20 25 30

Gln Trp Leu Ala Arg Gly Lys Val Glu Ser Cys Gly Gly Xaa Arg Leu  
 35 40 45  
 Asn Arg Leu Pro Glu Val Lys Ala Phe Leu Asn Glu Asp Leu Pro Leu  
 50 55 60  
 Tyr His Asn Met Asp Leu Lys Tyr Leu Ala Gly Ala Asp Pro Glu Leu  
 65 70 75 80  
 Ile Leu Leu Asn Ile Gln Phe Glu Glu Leu Gln Arg Ile Pro Leu Ser  
 85 90 95  
 Asp Met Ser Arg Glu Glu Ile Asn Gln Leu Met Gln Glu Leu  
 100 105 110

<210> 3

<211> 471

<212> DNA

<213> Artificial Sequence

<220>

<223> This degenerate nucleotide sequence encodes the  
amino acid sequence of SEQ ID NO:2.

<221> variation

<222> (1)...(471)

<223> N is A, G, C, or T.

<400> 3

atggaracnc cnytnyntng gytnccnytn ytynytnytnng gnytnytnws ngcnytnngcn 60  
 ccnytnmgng cngtncaryt ngaymgwnsn mgnytncart ggytnngcnmg nggnaargtn 120  
 garwsntgyg gnggnnnnmng nytnaaymgn ytncncngarg tnaargcntt yytnaaygar 180  
 gayytnccny tntaycayaay yatggayytng aartayytnng cnggngcnga yccngarytn 240  
 athytnytna ayathcartt ygargarytn carmgmthc cnytnwsnga yatgwsnmgn 300  
 gargaratha aycarytnat gcargarytn ggnttytaym gnaargayac nccngaywsn 360  
 ccngtnccng aycnattyca ratggcncn gcnaaywsny tnccnwsnga ygtngargcn 420  
 atgaaraaym gnmngncnaa rgaraaraar gngcnggng gnccngayyt n 471

<210> 4

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Selenocysteine insertion motif.

<221> variation

<222> (5)...(14)

<223> N is A, T, G, or C.

<221> variation

<222> (15)...(16)

<223> N is A, T, G, C, or absent.

<221> variation

<222> (19)...(34)

<223> N is A, T, G, or C.

<221> variation

<222> (35)...(44)

<223> N is A, T, G, C, or absent.

<221> variation

<222> (45)...(45)

<223> N is A, T, G, or C.

<221> variation  
<222> (48)...(48)  
<223> N is A, T, G, or C.

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48

<210> 5  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Selenocysteine insertion element.

<400> 5  
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40

<210> 6  
<211> 44  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Selenocysteine insertion element.

<400> 6  
atgaagccct ctgcagaaag ctttgctgc tgagggtgga taga

44